

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Michael J. Scaggs

Application No.: 10/065,262

Filed: September 30, 2002

For: METHOD AND APPARATUS FOR
ASSISTING LASER MATERIAL
PROCESSING

Confirmation No. 5670

Group Art Unit: 1763

Examiner: Unknown

**INFORMATION DISCLOSURE
STATEMENT**353 Sacramento Street, Suite 2200
San Francisco, CA 94111
(415) 772-4900Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**CERTIFICATE OF MAILING**I hereby certify that this correspondence is being deposited
with the United States Postal Service as First Class Mail in an
envelope, addressed to: Commissioner for Patents, P.O.
Box 1450, Alexandria, VA 22313-1450 on May 24, 2004.
STALLMAN & POLLOCK LLPDated: May 24, 2004By: Tanisha Lawrence-Caceres

06/03/2004 LWONDIM1 00000090 10065262

01 FC:1806

180.00 DP

Sir:

Applicant(s) submit(s) herewith patents, publications or other information [attached hereto and listed on the attached Form PTO-1449 (modified)] of which he is aware, which he believe(s) may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

This Information Disclosure Statement:

- (a) ☐ accompanies the new patent application submitted herewith. 37 CFR § 1.97(a).
- (b) ☐ is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR § 1.491.
- (c) ☒ as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits, or before a first office action after filing a Request for Continued Examination under §1.114.
- (d) ☐ is filed after the first office action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a

notice of allowance, whichever occurs first, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below.

- (e) ☐ is filed after the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and the Issue Fee has not been paid, and is accompanied by the fee (\$130) set forth in 37 CFR § 1.17(i)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement.

[If either of boxes (d) or (e) is checked above, the following "certification" under 37 CFR § 1.97(e) may need to be completed.] The undersigned certifies that:

- (f) ☐ Each item of information contained in the information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- (g) ☐ No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this information disclosure statement.

A list of the patent(s) or publication(s) is set forth on the attached Form PTO-1449 (Modified).

A copy of the items on PTO-1449 (Modified) is supplied herewith, except as noted below.

Those patent(s) or publication(s) which are marked with an asterisk (*) in the attached form PTO-1449 (Modified) are not supplied because they are (a) either U.S. Patents and this application filed after June 30, 2003, or (b) were previously cited by or submitted to the Office in a prior application no. _____, filed _____ and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

A concise explanation of relevance of the items listed on form PTO-1449 (Modified) is:

- (h) ☒ not given
- (i) ☐ given for each listed item

- (j) ☐ given for only non-English language listed item(s) [Required]
- (k) ☐ is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references [copy attached].

The Examiner is reminded that a "concise explanation of the relevance" of the submitted items "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention," MPEP § 609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and MPEP § 609 and the Examiner is respectfully requested to consider the listed references.

- ☒ The Commissioner is hereby authorized to charge our Deposit Account No. 50-1703, under Order No. COHL-5410, for any fees required in connection with the filing of this Information Disclosure Statement. **A duplicate copy of this Notice is enclosed for this purpose.** In particular, in the event that an Office Action has crossed in the mail with this Information Disclosure Statement, the Commissioner is authorized to charge the above-named deposit account for any fees required pursuant to CFR §§ 1.17(p) or 1.17(i)(1).

Respectfully submitted,

STALLMAN & POLLOCK LLP

Dated: May 26, 2009

By: 

Brian J. Keating (Reg. No. 39,520)

Attorneys for Applicant(s)



INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

COHL-5410

Application Number

10/065,262

Applicant(s)

Michael J. Scaggs

Filing Date

09/30/2002

Group Art Unit

Unknown

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	3,679,863	07/25/1972	Houldcroft et al.	219	121 LM	11/10/1969
	AB	3,749,878	07/31/1973	Sullivan et al.	219	121 L	01/19/1971
	AC	4,403,134	09/06/1983	Klingel	219	121 FS	03/17/1982
	AD	4,625,093	11/25/1986	Chryssolouris	219	121 LS	01/24/1986
	AE	4,792,779	12/20/1988	Pond et al.	338	195	04/18/1988
	AF	4,952,771	08/28/1990	Wrobel	219	121.67	12/18/1986
	AG	5,043,556	08/27/1991	Aono et al.	219	121.72	01/08/1990
	AH	5,057,184	10/15/1991	Gupta et al.	156	637	04/06/1990
	AI	5,593,606	01/14/1997	Owen et al.	219	121.71	07/18/1994
	AJ	5,841,099	11/24/1998	Owen et al.	219	121.69	05/17/1996
	AK	5,902,497	05/11/1999	Alber et al.	219	121.63	10/14/1995
	AL	5,902,499	05/11/1999	Richerzhagen	219	121.84	05/22/1995
	AM	5,486,264	01/23/1996	Ghandour	156	635.1	04/22/1994
	AN	5,577,092	11/19/1996	Kublak et al.	378	119	01/25/1995
	AO	5,544,775	08/13/1996	Kerth et al.	216	65	12/22/1994
	AP	5,552,675	09/03/1996	Lemelson	315	111.21	03/10/1992
	AQ	5,593,606	01/14/1997	Owen et al.	219	121.71	07/18/1994
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	AT	5,968,382	10/19/1999	Matsumoto et al.	219	121.72	07/12/1996
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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BC	10-99978	04/21/1998	Japan	B 23 K	26/00	Abstract	
	BD	59-206189	11/21/1984	Japan	B 23 K	26/00	Abstract	
	BE	WO 03/028941	04/10/2003	PCT	B23K	26/00		
	BF	WO 03/028943	04/10/2003	PCT	B23K	26/12		

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

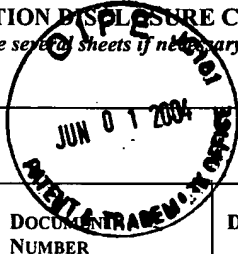
BG	A. Dupont, et al., "Enhancement of material ablation using 248, 308, 532, 1064 nm laser pulse with a water film on the treated surface," <i>J. Appl. Phys.</i> , Vol. 78, No. 3, 1 August 1995, pp. 2022-2028.
BH	S. Zhu, et al., "Laser ablation of solid substrates in a water-confined environment," <i>Applied Physics Letters</i> , Vol. 79, No. 9, 27 August 2001, pp. 1396-1398.

Examiner

Date Considered

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Docket Number (Optional) COHL-5410	Application Number 10/065,262
	Applicant(s) Michael J. Scaggs	
	Filing Date 09/30/2002	Group Art Unit Unknown



U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	BI	6,669,774	12/30/2003	Zhang et al.	117	4	07/14/2000
	BJ	6,692,337	2/17/2004	Jennings et al.	451	36	03/14/1997
	BK	US 2001/0040152	11/15/2001	Higashi et al.	219	121.67	05/02/2001
	BL	US 2002/0125232	09/12/2002	Choo et al.	219	121.69	02/28/2002
	BM	US 2003/0129814	07/10/2003	Mizukoshi	438	584	12/27/2002

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	BN	M. Mosbacher, et al., "Universal threshold for the steam laser cleaning of submicron spherical particles from silicon," <i>Appl. Phys. A.</i> , Vol. A 70, (2000), pp. 669-672.
	BO	S. J. Lee, et al., "Shock wave analysis of laser assisted particle removal," <i>J. Appl. Phys.</i> , Vol. 74, No. 12, 15 December 1993, pp. 7044-7047.
	BP	Stephan Roth, et al., "Novel technique for high-quality microstructuring with excimer lasers," <i>Proceedings of SPIE - In Laser Applications in Microelectronic and Optoelectronics Manufacturing V</i> , Vol. 3933, (2000), pp. 338-346.
	BQ	G. Chryssolouris, et al., "Recent Developments in Three-Dimensional Laser Machining," <i>Supplied by the British Library, ICALEO (Inter-national Congress on Applications of Laser and Electro-Optics)</i> , (1990), pp. 281-293.
	BR	J. Sun, et al., "Ultrafast Laser Micromachining with a Liquid Film," <i>ICAEO (Inter-national Congress on Applications of Laser and Electro-Optics)</i> , (2001), 10 Pages in Length.
	BS	Stephan Roth, et al., "Specific Surface Treatment by Laser Irradiation Under Liquid Films," <i>Laser Microfabrication - ICALEO (Inter-national Congress on Applications of Laser and Electro-Optics)</i> , (2000), pp. B-11-B-20.

Examiner	Date Considered
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



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Group Art Unit: 1763

Examiner: Unknown

**CHANGE OF ATTORNEY OR AGENT'S
ADDRESS IN APPLICATION
(37 CFR 1.8(a))**

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited
with the United States Postal Service as First Class Mail in an
envelope, addressed to: Commissioner for Patents, P.O.
Box 1450 Alexandria, VA 22313-1450 on May 26 2004.

STALLMAN & POLLOCK LLP

Dated: 05/26/04

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